

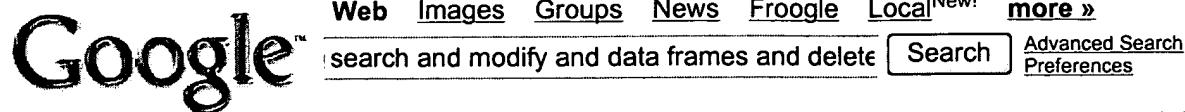
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Appendix E. Command Summary

MD **modify** CM **data** segment MDB **modify** CM DB-relative MODD **delete** temporary dump
 ... SYMOPEN open a symbolic file with **data types** in debug records ...
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Allows you to **delete** a named historical **data** collection. ... Oracle Performance
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R

1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Computer Research**

Full text available:  [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process diagrams are often used to obtain a better understanding of the execution of the application. The problem we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are complex and do not provide the user with the desired overview of the application. In our experiments we display repeated occurrences of non-trivial communication patterns ...

2 [Technique for automatically correcting words in text](#)

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available:  [pdf\(6.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for words that do not appear in a given word list. In response to the second problem, a variety of general and specific spelling correction ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

3 [Special issue: AI in engineering](#)

D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92

Full text available:  [pdf\(8.79 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the fact that sixty papers received from over six countries. About half the papers were received over the computer network ...

4 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available:  pdf(13.13 MB)

Additional Information: [full citation](#), [abstract](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a special issue on knowledge representation research. We felt that there were two useful functions such an issue could serve: we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what application techniques are currently being developed. Second ...

5 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Full text available:  pdf(6.15 MB)

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Additional Information: [full citation](#)

6 Special section: Special issue on AI and Database research

Jonathan J. King

October 1983 **ACM SIGART Bulletin**, Issue 86

Full text available:  pdf(3.84 MB)

Additional Information: [full citation](#), [abstract](#)

This collection of research summaries spans a very wide range of interests under the general heading of Database research. In this introduction, I briefly describe the leading areas of interest that emerged in the reports submitted for this issue.

7 Structured hypertext with domain semantics

Weigang Wang, Roy Rada

October 1998 **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 4

Full text available:  pdf(593.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One important facet of current hypertext research involves using knowledge-based techniques to maintain document structures. A semantic net is one such technique. However, most semantic-net based hypertext systems leave the linking consistency of the net to individual users. Users without guidance can accidentally introduce structural and relational inconsistencies in the semantic nets. The relational nature of the semantic net hinders the creation of domain information models. The structure ...

Keywords: graph theory, hypertext models, hypertext structures

8 Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available:  pdf(7.97 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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9 Machine interpretation of CAD data for manufacturing applications

Qiang Ji, Michael M. Marefat

September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

Full text available:  pdf(1.90 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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Keywords: artificial intelligence, automated process planning, computer-aided design, computer-manufacturing, feature recognition, flexible automation

10 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available:  pdf(9.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as possible, database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible databases, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, parallel database systems, set-matching algorithms, sort-hash duality

11 Concepts and paradigms of object-oriented programming

Peter Wegner

August 1990 **ACM SIGPLAN OOPS Messenger**, Volume 1 Issue 1

Full text available:  pdf(5.52 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We address the following questions for object-oriented programming: *What is it? What are its goals? What are its origins? What are its paradigms? What are its design alternatives? What are its models of concurrency? What are its formal computational models? What comes after object-oriented programming?* Starting from softw ...

12 Special issue on ill-formed input: Recovery strategies for parsing extragrammatical language

Jaime G. Carbonell, Philip J. Hayes

July 1983 **Computational Linguistics**, Volume 9 Issue 3-4

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Practical natural language interfaces must exhibit robust behaviour in the presence of extragrammatical language. This paper classifies different types of grammatical deviations and related phenomena at the lexical, syntactic, and dialogue levels and presents recovery strategies tailored to specific phenomena in the classificatio ...

13 The berkeley UNIX consultant project

Robert Wilensky, David N. Chin, Marc Luria, James Martin, James Mayfield, Dekai Wu

December 1988 **Computational Linguistics**, Volume 14 Issue 4

Full text available: [!\[\]\(35e4f762fc1cfea5610d92e2d225d5b4_img.jpg\) pdf\(4.41 MB\)](#) [!\[\]\(b6a97e4835c8c5eb846fcac2cc15117e_img.jpg\) Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

UC (UNIX Consultant) is an intelligent, natural language interface that allows naive users to learn operating system. UC was undertaken because the task was thought to be both a fertile domain of intelligence (AI) research and a useful application of AI work in planning, reasoning, natural language and knowledge representation. The current implementation of UC comprises the following components: a parser, called ALANA, produces a representation ...

14 The software information base: a server for reuse

Panos Constantopoulos, Matthias Jarke, John Mylopoulos, Yannis Vassiliou
January 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9, Number 1

Full text available: [!\[\]\(83f22ed94ec5517769dd76d702c6bfd8_img.jpg\) pdf\(1.87 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We present an experimental software repository system that provides organization, storage, management and access facilities for reusable software components. The system, intended as part of an application environment, supports the representation of information about requirements, designs and implementations of software, and offers facilities for visual presentation of the software objects. This article details the architecture of the repository system, the technical challenges ...

Keywords: conceptual modeling, information storage and retrieval, object-oriented databases, reuse, software engineering

15 The FINITE STRING newsletter: Abstracts of current literature

Computational Linguistics Staff
April 1986 **Computational Linguistics**, Volume 12 Issue 2

Full text available: [!\[\]\(d0262bbe9d2356661a2e89321dfcc781_img.jpg\) pdf\(2.41 MB\)](#) [!\[\]\(8572950e410320d7dd023da827ff014d_img.jpg\) Publisher Site](#) Additional Information: [full citation](#)

16 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries

Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp
April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

Full text available: [!\[\]\(0d7ca0919e6c47bbd874bfa0189fe22e_img.jpg\) pdf\(316.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital libraries (DLs) are complex information systems and therefore demand formal foundations. However, the efforts to define them diverge and interoperability suffers. In this article, we propose the fundamental abstraction of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed graphs ...

Keywords: applications, definitions, foundations, taxonomy

17 SIGART special issue on machine learning

April 1981 **ACM SIGART Bulletin**, Issue 76

Full text available: [!\[\]\(df47d6bec273bbb8b349135fff3a20f7_img.jpg\) pdf\(3.33 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Current research on Machine Learning encompasses a diverse set of approaches, and of opinions on what the important issues lie. The significant increase of interest and research activity in Machine Learning over the last few years has led us to organize this special issue of SIGART, whose purpose is to provide a snapshot of the state of research in this field. This issue contains a set of summaries of ongoing research, solicited from the leading researchers in the field, and received from thirty-five research groups ...

18 A review of vessel extraction techniques and algorithms

Cemil Kirbas, Francis Quek

June 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2

Full text available:  pdf(8.06 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Vessel segmentation algorithms are the critical components of circulatory blood vessel analysis systems. We present a survey of vessel extraction techniques and algorithms. We put the various vessel extraction techniques in perspective by means of a classification of the existing research. While we have focused on the extraction of blood vessels, neurovascular structure in particular, we have also reviewed some segmentation methods for the tubular objects that show ...

Keywords: Magnetic resonance angiography, X-ray angiography, medical imaging, neurovascular extraction

19 Geographic Data Processing

George Nagy, Sharad Wagle

June 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 2

Full text available:  pdf(4.20 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 Commercially viable active networking

Stuart Eichert, Osman N. Ertugay, Dan Nessett, Suresh Vobbisetti

January 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue 1

Full text available:  pdf(1.52 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Active Networking is a new technology receiving significant attention from the research community; however, it has not been examined from the perspective of commercial viability. This paper presents active networking issues with a view to its possible uses in a commercial environment. It then describes a prototype system built to address these issues.

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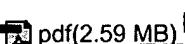
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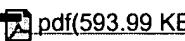
Practical natural language interfaces must exhibit robust behaviour in the presence of extragrammatical language. This paper discusses recovery strategies for different types of grammatical deviations and related phenomena at the lexical, sentential and discourse levels. These strategies are tailored to specific phenomena in the classification. Such strategies constitute a tool chain for coping with extragrammaticality in restricted domain natural language. Some of the ...

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Weigang Wang, Roy Rada

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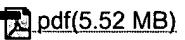
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12 Concepts and paradigms of object-oriented programming

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August 1990 **ACM SIGPLAN OOPS Messenger**, Volume 1 Issue 1

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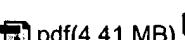
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13 The berkeley UNIX consultant project

Robert Wilensky, David N. Chin, Marc Luria, James Martin, James Mayfield, Dekai Wu

December 1988 **Computational Linguistics**, Volume 14 Issue 4

Full text available:



[pdf\(4.41 MB\)](#)



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Keywords: Magnetic resonance angiography, X-ray angiography, medical imaging, neurovascular

15 The use of description logics in KBSE systems

Premkumar Devanbu, Mark A. Jones

April 1997 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 6, Number 1

Full text available:  pdf(365.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)

The increasing size and complexity of many software systems demand a greater emphasis on capturing knowledge at many different levels within the software development process. This knowledge includes descriptions of system components and their behavior, external and internal design specifications, and support for system reuse. The knowledge-based software engineering (KBSE) research paradigm is concerned with systems that use formally represented knowledge to support the software development environment.

Keywords: automated software engineering, knowledge basis, logics, software development environment

16 SIGART special issue on machine learning

April 1981 **ACM SIGART Bulletin**, Issue 76

Full text available:  pdf(3.33 MB)

Additional Information: [full citation](#), [abstract](#)

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April 1986 **Computational Linguistics**, Volume 12 Issue 2

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18 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available:  pdf(5.49 MB)

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Distributed operating systems have many aspects in common with centralized ones, but they also differ in several ways. This survey is intended as an introduction to distributed operating systems, and especially to current university research in this area. It discusses the basic concepts of what constitutes a distributed operating system and how it is distinguished from a computer network. Then several examples of current research projects are examined in some detail.

19 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries

Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

Full text available:  pdf(316.85 KB)

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Digital libraries (DLs) are complex information systems and therefore demand formal foundations

interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of a static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy

20 Commercially viable active networking

Stuart Eichert, Osman N. Ertugay, Dan Nessett, Suresh Vobbisilsetty

January 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue 1

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Inventor: HE ZHIQUN (CN); WANG YUXIANG (CN) Applicant:
EC: H04L29/06E IPC: H04J3/22

Publication info: **US2005008029** - 2005-01-13

2 System and method of accessing and transmitting different data frames in a digital transmission network

Inventor: HE ZHIQUN (CN); WANG YUXIANG (CN);
(+1) Applicant:
EC: H04L29/06E IPC: G06F15/16

Publication info: **US2005005029** - 2005-01-06

3 System and method of accessing and transmitting different data frames in a digital transmission network

Inventor: HE ZHIQUN (CN); WANG YUXIANG (CN) Applicant:
EC: H04L12/46B7B; H04L29/06E IPC: H04L12/28

Publication info: **US2004258080** - 2004-12-23

4 System and method of accessing and transmitting different data frames in a digital transmission network

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EC: H04L12/46V IPC: H04L12/28

Publication info: **US2004246981** - 2004-12-09

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Castoldi, P.; Raheli, R.; Marino, G.;
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Xiaobing Lee; Ya-Qin Zhang;
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